NWFF ENVIRONMENTAL

September 23, 2020

City of Kodiak
Office of the Harbor Master
Attn: Michael Sarnowski
710 Mill Bay Road
Kodiak, AK 99615

Sent via email: msarnowski@city.kodiak.ak.us

Subject: **Limited Hazardous Material Survey of Suspect Materials – M/V Wild Alaskan**

Mr. Sarnowski,

NWFF Environmental (NWFF) was retained by the City of Kodiak to perform a limited hazardous materials survey and collect bulk samples of suspect asbestos-containing materials (if present) and lead samples from the M/V Wild Alaskan. The limited survey was conducted on September 10th, 2020 by Mr. Jason Storrs and Mrs. Monique Robertson-Lewis. The consultants' certifications can be found in **Attachment A.** The purpose of this survey was to thoroughly inspect for asbestos and lead paint in preparation for permitting the vessel for disposal at sea.

Methodology-Asbestos

Asbestos-containing materials are governed by the Environmental Protection Agency (EPA) National Emission Standards of Hazardous Air Pollutants (NESHAP) during a renovation/demolition. These materials are defined as containing greater than one percent (>1%) asbestos. The Occupational Safety and Health Administration (OSHA) regulations for asbestos are focused on the protection of the worker's health and safety. **No suspect friable asbestos was identified during the course of inspection and no samples were collected due to the disturbance of any non-friable ACM that may exist as part of this survey.**

Results

The following list of materials are assumed asbestos-containing.

Assumed Asbestos-Containing Material (ACM) Results

Assumed Material	Location	Classification
Gaskets/Seals	Engine Room/Throughout	Category II Non-Friable
Transite	Electrical Panels-Throughout	Category II Non-Friable
Braided Electrical Wiring	Electrical Wiring Throughout	Category II Non-Friable
Window Glazing	Pilot House Windows	Category II Non-Friable

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Methodology-Lead

NWFF utilized an X-Ray Fluorescence (XRF) direct read spectrum analyzer to take measurements of representative painted and coated surfaces for evaluation of lead content prior to renovation or demolition activities. It should be noted that this analytical data can be helpful in evaluation of lead-related environmental risks in general but cannot be used to calculate worker exposures and is not a substitute for employee exposure monitoring or waste stream sampling. The testing was conducted in general accordance with the documented methodologies and quality control procedures outlined in Chapter 7 of the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, along with the Niton XLp 300 Performance Characteristic Sheet (PCS). Lead-Based paint is defined as greater than or equal to 1.0 mg/cm^2.

The lead-based paint survey consisted of the following major activities: visual inspection and XRF testing of paint on surfaces. Before and after testing, the XRF was calibrated per the manufacturer's instructions. After completing the final calibration tests, the inspector performed a final walk-through making any necessary notes. XRF testing was methodically conducted by clearly notating the location and description of each component tested. The component location, test location, and test results, expressed as mg/cm2, for each component tested were recorded on the device and subsequently downloaded.

Results

The following is a list of confirmed Lead-Based Paint on the Vessel.

Confirmed Lead-Based Paint Results

Sample #	Type	Sample Description	Result (mg/cm^2)
216	Paint	Foyer to Kitchen-Wall, White	2.6
217	Paint	Foyer to Kitchen-Wall, White	2.7
240	Paint	Stairs from Pilot to Deck, Blue Handrail	1.4
241	Paint	Stairs from Pilot to Deck, Blue Trim	1.9
242	Paint	Stairs from Pilot to Deck, Blue Wall	2.2
249	Paint	Stairs-Pilot, Red and Black	2.7
250	Paint	Engine Room Stairs, White Wall	2.1
253	Paint	Engine Room Stairs, Red on Stairs	2.4
255	Paint	Engine Room Stairs, Red Stair Riser	4.8
257	Paint	Engine Room, White on Structural Components	2.1
259	Paint	Engine Room, White on Structural Components	2.9
260	Paint	Engine Room, White on Structural Components	5.4
261	Paint	Engine Room, White on Structural Components	3.15
265	Paint	Engine Block - Exhaust Assembly, Yellow	1.5
266	Paint	Engine Block - Exhaust Assembly, Yellow	6.3
270	Paint	Engine Room, White Pipe Valve Flange	3.2
273	Paint	Engine Room, White Structural Components	2
276	Paint	Engine Room, White Bulkhead	2.4
287	Paint	Top Deck of Pilot House, Blue on Exhaust Hood	3.75
288	Paint	Top Deck of Pilot House, Blue on Exhaust Hood	2.6

Limitations

This report has been developed to provide the City of Kodiak with information regarding apparent conditions related to limited accessible building materials in the subject property. Although NWFF believes that the findings provided in this report are reasonable, the assessment is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the inspection, there is a possibility that conditions exist that could not be identified within the scope of the work or which were not apparent at the time of the inspection. The inspection is also limited to information available from the client at the time it was conducted. NWFF does not guarantee that all suspect material in the subject property were recognized during the inspection. This report is limited only to a visual inspection for friable asbestos containing material and accessible painted surfaces. If additional suspect material not included in this report is encountered, it must be assumed to contain asbestos or lead paint or tested and proven otherwise.

Thank you for choosing NWFF to provide professional environmental consulting services. Feel free to contact us if there are questions about this report.

Sincerely,

Prepared by:

Monique Robertson-Lewis, CSP
AHERA#3794-ASB-20
Principal

Reviewed by:

Jason Storrs, CIH, CSP
Health and Safety Practice Leader
Principal

ATTACHMENTS:

A - Inspector Certification
B – Photo Log

Attachment A

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Jason Storrs

has attended and satisfactorily completed all requirements to maintain accreditation as an AHERA Building Inspector in accordance with the Toxic Substance Control Act Title (Section 206) and 40 CFR 763.

Accreditation No. BI/R-NES-091719-14

Course Date: Oct. 8, 2019
Valid through: Oct. 8, 2020

Instructor: Patricia "PJ" Journey

NOW Environmental Services, Inc.
34004 – 9th Avenue South, Suite # 12
Federal Way, Washington 98003
(253) 927-5233

Environmental Contracting Solutions Inc.

"A Professional Health, Safety and Environmental Company"
Certifies That

Monique Lewis

Has successfully Completed the

AHERA Building Inspector

Certificate # 3794-ASB-20 (01/31/2021)

In Compliance with Alaska Asbestos Abatement Certification Statutes 8 AAC 61.600 – 790 and EPA/AHERA Regulation 40 Part CFR 763 Subpart E for Supervisors and Contractors and OSHA Regulation 29 CFR 1926.1101

Certified by:

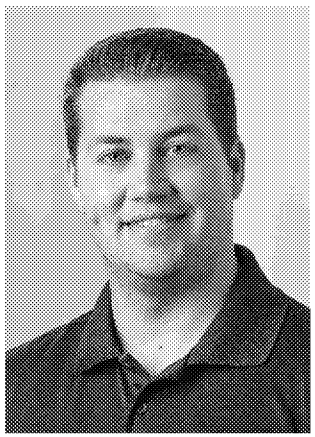
Ryan Sharratt, CSP
Chief Executive Officer

BCSP CSP RYAN B. SHARRATT 27306 CERTIFIED SAFETY PROFESSIONAL

ED_006054_00000510-00006

United States Environmental Protection Agency

This is to certify that



Jason D Storrs

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires September 05, 2022

LBP-R-I207231-1

Certification #

August 22, 2019

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

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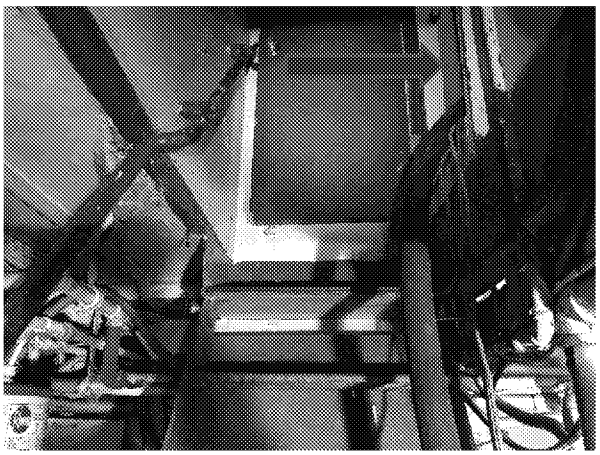
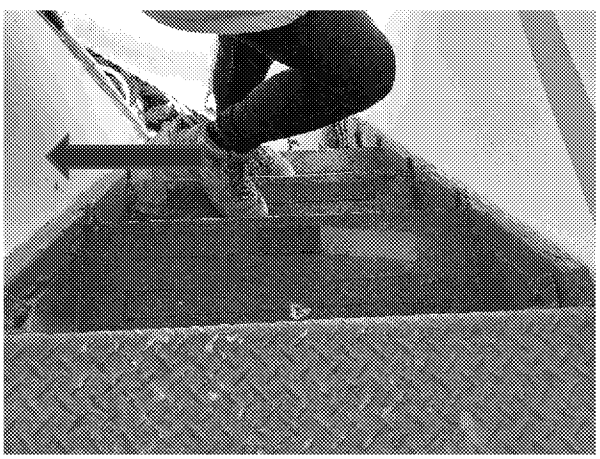
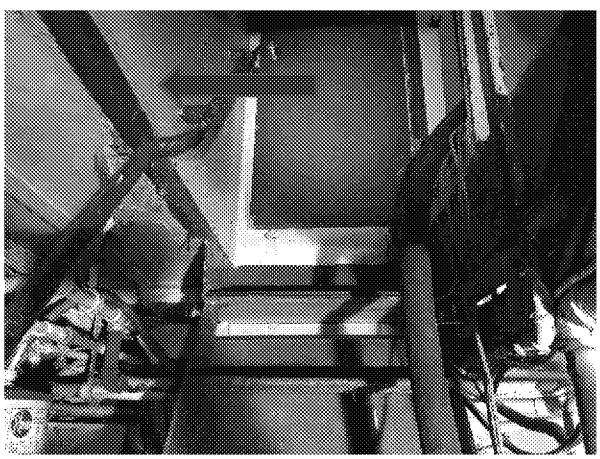
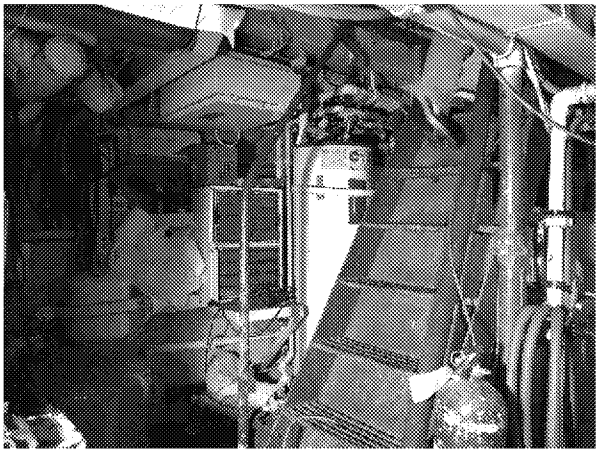
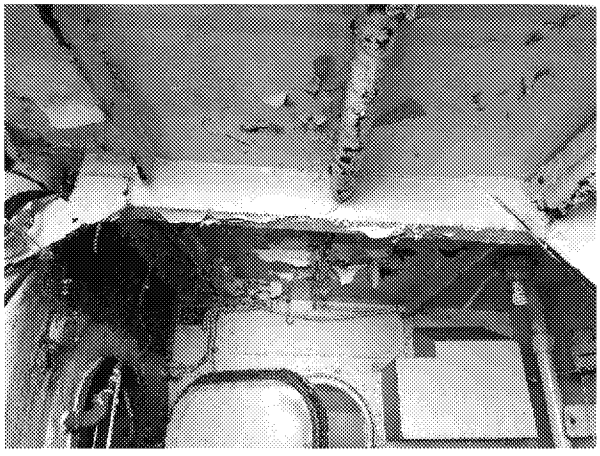
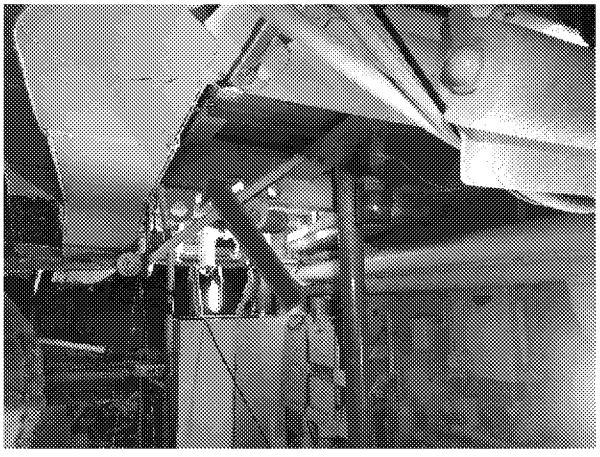
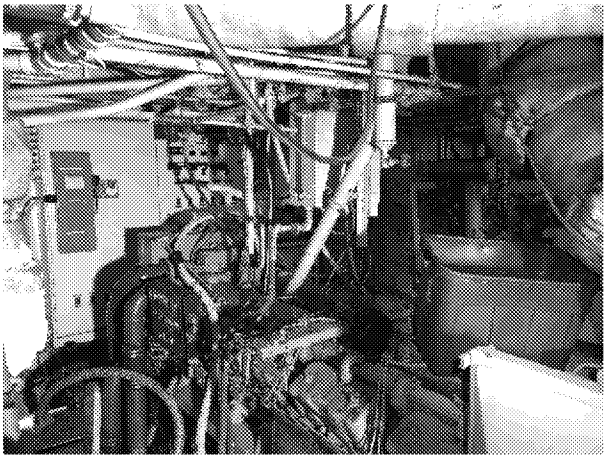
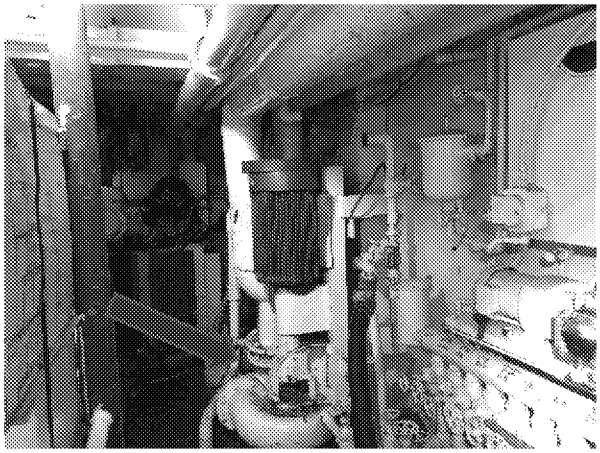
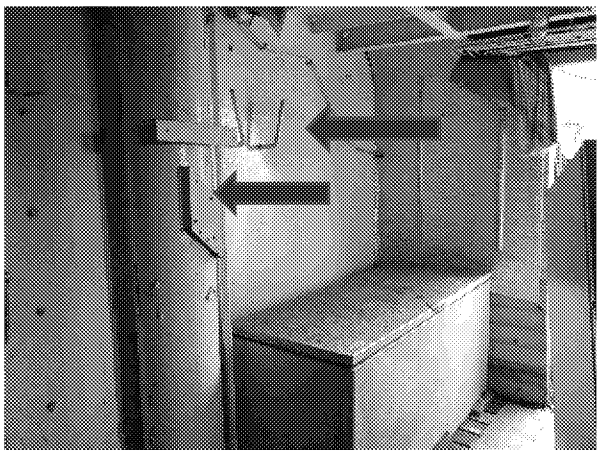
Attachment B

			
Sample 216, 217	Foyer to Kitchen-Wall, White	Sample 240	Stairs from Pilot to Deck, Blue Handrail
			
Sample 241	Stairs from Pilot to Deck, Blue Trim	Sample 242,287, 288	Stairs from Pilot to Deck, Blue Wall, and Exhaust Hood
			
Sample 238, 249	Stairs-Pilot, Red and Black and White Walls	Sample 250	Engine Room Stairs, White Wall

			
Sample 253,255	Engine Room Stairs, Red Stairs	Sample 213-215	Hydraulic Control Room
			
Sample 257,259,	Engine Room, White on Structural Components	Sample 260,261, 276	Engine Room, White on Structural Components, Bulkhead
			
Sample 265,266	Engine Block - Exhaust Assembly, Yellow	Sample 270,273	Engine Room, White Pipe Valve Flange

			
Sample 208	Freezer Room-Structural Components	Sample 205,206	Freezer Room-Vertical Pillar and Wall